RLEMENT'IEV, N.M., insh.

Study of a friction coefficient dependen on the temperature of the contact. Trudy Rhab. IIT no.16:250-262 '64 (MIRA 18:2)

Mction pictures in the biology class. Biol.v shkole no.5;
54-55 S-0 '59.

1. Demikhovskaya srednyaya shkola Orekhovo-Zuyevskogo rayona
Noskovskoy oblasti.
(Motion pictures in education)
(Biology-Study and teaching)

KIDTENT'IEV. M.P., uchitel!

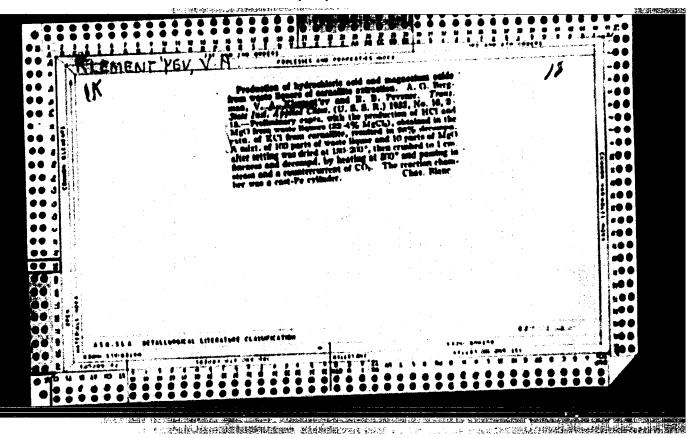
First lessons in studying arthropoda; sixth grade. Biol. v shkole no.2:18-22 Mr-Ap '61. (MIRA 14:3)

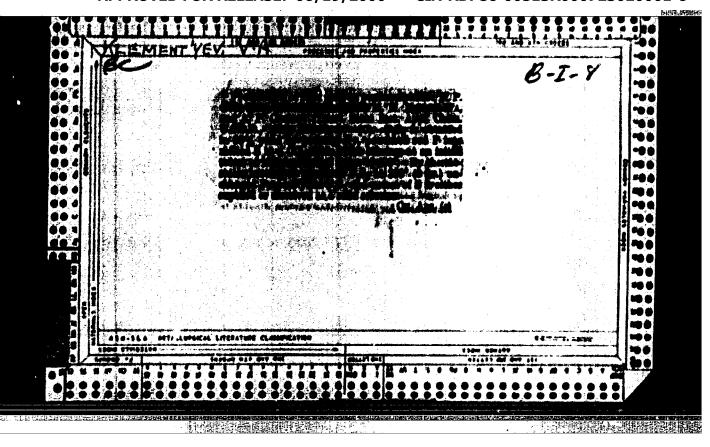
1. Demikhovskaya srednyaya shkola Orekhova-Zuyevskogo rayona Moskovskoy oblasti.
(Entokology-Study and teaching)

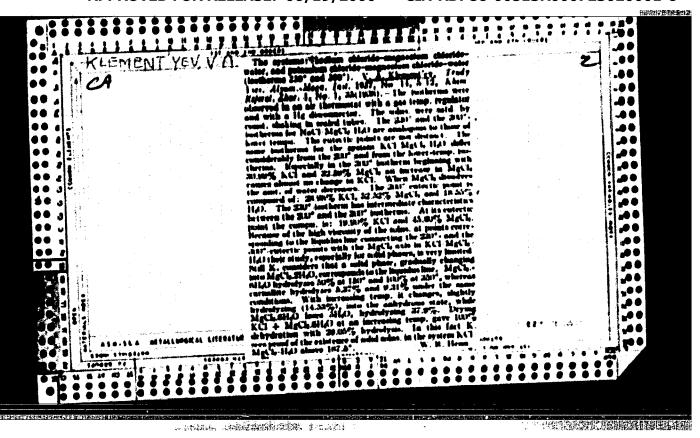
KLEYENT'YEV, SERLEY DMITRIYEVICH

SEE ILC

ELECTRONICS/ REMOTE CONTROL







SOV/137-58-7-14547

L.P.

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 86 (USSR)

AUTHOR: Klement'yev, V.A.

TITLE: A Comparative Method of Determining the Activity of a Magnesite Mix in Chlorination (Sravnitel'nyy metod opredeleniya

aktivnosti magnezitovoy shikhty pri khlorirovanii)

PERIODICAL: Tr. Vses. n.-i. alyumin.-magn. in-ta, 1957, Nr 40, pp

353-357

ABSTRACT: A comparative method of determining the activity of a mix

has been developed. The criterion of activity is the degree of conversion of MgO into MgCl₂ when Cl₂ is transmitted through the mix at 500°C, making for intensive chlorination without fusion of the Mg. The end of the process is determined by the appearance of free Cl₂ in the exiting gases. The design of laboratory equipment and a method for conducting the tests and for

calculation of the experimental results are presented.

1. Magesium alloys-Halogenation 2. Magnesium alloys -- Chemical reactions 3. Laboratory equipment-Design

Card 1/1

Mechanising the work of preparing and delivering hot asphalt-bitumen waterproofing. Meth.stroi. 13 no.9:22-24 J1 '56. (Waterproofing) (Bituminous materials) (MERA 9:11)

EUBAHOV, Mikhail Prokof'yevich; dotsent, kand.tekhn.mauk; ILBURT'YEV,
Y.Q., insh., retsensent; POWORSKIY, Leve, insh., red.; DUSUSOVA,
Q.A., red.isd-va; SOKOLOVA, L.V., tekhn.red.

[Yibrators for compacting confrete mixes and soils] Yibratsionnye mashiny dlis uplotneniis betonnykh smesei i grunts. Moskva, Gos.
nsuchno-tekhn.isd-vo mashinostroit.lit-ry, 1959. 218 p.

(Wibrators) (Concrete) (Soil stabilization)

KLENCHYLYEV, Y.O., insh.; ESTRIN, M.I., kand.tekhn.nauk

Foreign machinery for constructing cement-concrete pavements. Stroi.
i dor.mashinestr. 5 no.3:36-40 Mr '60. (MIRA 13:6)
(Road machinery)

KIEMENT'YEV, V.G., insh.; SHAIMAN, D.A., kand.tekhn.nauk; ESTRIN, M.I., kand.
tekhn.nauk

Universal slope planers. Stroi. i dor. mash. 6 no.2:8-10 F '61.
(MIRA 14:5)

(Road machinery)

ESTRIN, M.I., kand.tekhn.nauk; KLEMENT'YEV, V.G., inzh.

Designing equipment for laying coment-concrete pavements. Stroi.i dor.mash. 6 no.4:15-17 Ap '61.

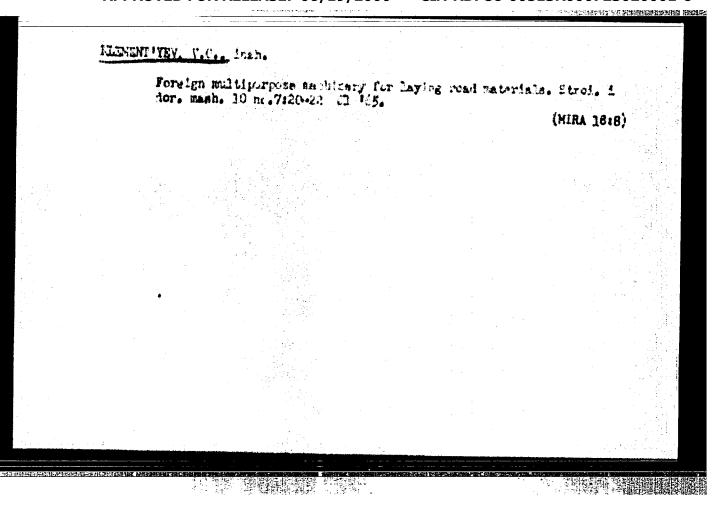
(Pavements, Concrete)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020001-6"

THE STATE OF THE S

GUSEV, L.M.; KLEMENT'YEV, V.G., insh., retsenzènt; SOBOLEV, N.V., kand. tekhn. nauk, red.; BOCHAROVA, Ye.G., red. izd-va; PETERSON, H.M., tekhn. red.; BARDINA, A.A., tekhn.red.

[Design of street-cleaning motortrucks] Raschet 1 konstruktsii podmetal'no-uborochnykh mashin. Moskva, Mashgis, 1963. 203 p. (MIRA 16:10) (Street cleaning-Equipment and supplies)



9.2576 (1055, 1154, 1163, 1538)

32672 S/200/61/000/012/002/002 D201/D301

AUTHOR:

Klement'yev, V.M.

TITLE:

An open (disc) resonator

PERIODICAL:

Akademiya nauk SSSR, Sibirskoye otdeleniye. Izvestiya,

no. 12, 1961, 98-101

TEXT: The author reports on an investigation into the dependence of radiation from a disc resonator on the disc shape, on its coupling with the waveguide section, on the spacing L between discs, of a diffraction resonator, together with the distribution of resonance of different modes of oscillations, as depending on disc spacing and coupling. The value of Q at various disphragms was also measured. The resonator used had circular discs 100 mm in diameter, i.e. of the order of 12 λ , coupled by an inductive disphragm to a rectangular waveguide. Q was found to remain high, although decreasing slightly, with increasing coupling. The distribution density of oscillations of the higher modes was found to be less than that of lower modes and decreasing with coupling. It is easier,

Card 1/4

32672 S/200/61/000/012/002/002 D201/D301

An open (disc) resonator

therefore, to produce a higher mode oscillation. The number of modes is independent of coupling. Q was measured by the reflected wave method, with an additional feature of an automatic pen-recorder of the type \$\mu 16 \in \tilde{\Phi}\$ [0.00] [0.0

$$\frac{\partial}{\partial \varphi} = \frac{\partial}{\partial z} = 0$$
 and $H_r = E_r 0$ with its solution Eq. (3)

 $E_z = AH_0^{(1)}(j\gamma r) + BI_0(j\gamma r)$, where $H_0^{(1)}$ (iyr) is the Hankel function of an imaginary argument (the Macdonald function) and $I_0(i\gamma r)$ the modified Card 2/4

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32672 S/200/61/000/012/002/002 D201/D301

An open (disc) resonator

Bessel function of zero order, then the characteristic impedance will be real for the solution with the Macdonald equation, resulting in the wave being propagated with imaginary for the solution with a modified Bessel function which corresponds to the absence of waves being propagated. It seems that for an exact solution these cases correspond to various distances between the discs. To investigate the above, diaphragms were constructed, with coupling irises d having diameters 2.1, 3.5, and 7.2 mm. The experiment has shown that by increasing coupling from L \(\frac{1}{2} \)

the radiation increases and reaches a maximum at d = 7.2 mm. This shows that a disc resonator may be excited by diffraction of waves from the primary region, formed by two discs spaced by $L \angle \frac{\lambda}{2}$ into the secondary

region (resonator), formed by the middle (second) and the third disc. This resonator has been called a diffraction resonator. It is stated that such a tuning arrangement may be used for excitation of delay devices. There are 2 tables, 4 figures and 4 reigrences: 3 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads

Card 3/4

32672 S/200/61/000/012/002/002 D201/D301

An open (disc) resonator

as follows: A.L. Schawlow and C.H. Townes, Infra-red and Optical Masers, Phys. Rev., 112, no. 6, (1958).

ASSOCIATION: Institut radiofiziki i elektroniki Sibirekogo otdeleniya

AN SSSR, Novosibirsk (Institute of Radio-Physics and Electronics of the Siberian Branch AS USSR, Novosibirsk)

Card 4/4

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723020001-6

IJP(c) ERT(1:/EPF(n)-2/ERG(m)/EP.(m)-2/T Pz-6:Po-+ Pab-10/Pi-4 11.81.45 UR/0288/65/000/001/0091 3095 2 07 1 N NR1 4PS012340 A THER: Klement yev. V. M. 0 TITLE: Discharge within a large hollow cathode BURGES AN SSSR. Sibirskoye otdeleniye. Isvestiya. Seriya tekhnicheskikh nauk, no. 1, 1965, 91-95 TOPIC TAGS: high electron density discharge, hollow cathode discharge, plasma reflection ABSTRACT: The study of the properties of plasma layers above metallic surfaces where the dimensions of the layer are considerably larger than the electromagnetic wavelength is of great practical interest (see L. S. Tavlor, Proceedings of the TRP, 1961, vol. 49, no. 12, p. 1631). Most convenient for such purposes is diswithin hollow cylindrical cathodes. The aim of the present paper was to within large-radius hellow cathodes, a uniform over the cross section) as the electron densities n_{ϵ} in excess of $1 - m^{-1}$, and to study its remarkable of the eight-millimeter wave range. The rescription of the experimental metric is tollowed by a presentation of the results and their interpretation. Tests Cord 1/2

L 53683-65

ACCESSION NR: AP5012340

2

on the discharge within a 94-mm diameter hollow cathode showed that: 1) in the 0.5-5 mm Hg range of neon pressure and at discharge currents between 1.5 and 2.5 Å, one obtains, above the cathode end, a uniform plasma with electron densities of $3\cdot 10^{-13}$ cm⁻³; 2) the most convenient operating region is with 1-4 mm Hg of neon pressure, 3) the plasma uniformity is the result of a strong interaction of the regions with negative glow; and 4) the volt-ampere characteristics at 1-4 mm Hg of neon and 0.1-0.4 A discharge current show negative slopes. The author thanks La A. Kolosova for her help during the study. Orig. art. has: 1 formula and 4 figures.

ASSOCIATION: Institut radiofiziki i elektroniki Sibirskogo otdeleniya AN SSSR Novosibirsk (Institute of Radiophysics and Electronics, Siberian Division, AN SSSR

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ENCL: 00

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OTHER: 004

Card 2/2

"APPROVED FOR RELEASE: 06/19/2000

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1. 68407-55

EWI(1)/EPF(n)-2/EMG(m)/EFA(w)-1/T Pz-6/Pah-10 IJP(e)

ACCESSION WR: AP5011668

UR/0120/65/000/002/0030/0033

AUTHOR: Klement'yev, V. M.

TITLE: Large hollow cathode having a uniform discharge

SOURCE: Pribory i tekhnika eksperimenta, no. 2, 1965, 30-33

TOPIC TAGS: cathode, hollow cathode

ABSTRACT: The results are reported of an experimental study of the discharge in large cylindrical hollow cathodes (see Fig. 1 of Enclosure) with a uniform plasma layer over the cathode's flat end. The uniform discharge is achieved by either drilling holes in the copper cathode disk or placing a large-mesh grid 5 mm above the cathode disk. The disk diameter was 135 mm; cylinder height, 30 mm; pressures, 1-5 torr; current, 1-2 emp. Both designs ensure a fairly uniform plasma distribution over the cathode surface which was proven by photographing the discharge. "The with r wishes to thank S. N. Bageyev and S. I. Lavrukhina for their help." [03] Orig. art has: 5 figures.

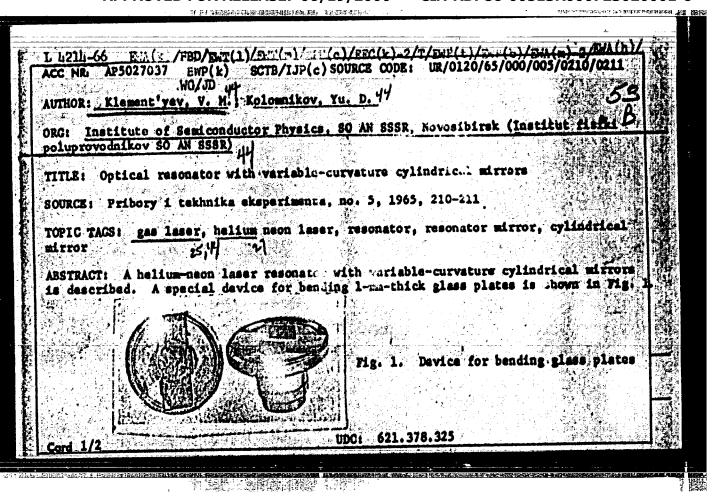
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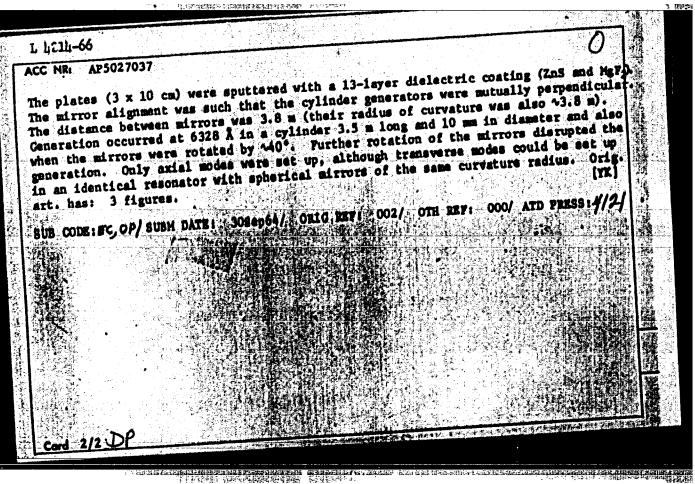
L 48907-65
ACCESSION NR: AP5011868

ASSOCIATION: Institut radiofiziki i elektroniki SO AN SSSR (Institute of Radiophysics and Electronics, SO AN SSSR)

SUBMITTED: 15Feb64 ENCL: 01 SUB CODE:

NO REF SOV: 000 OTHER: 002 ATT FRESS: LOO3





L 36992-65 EMT(d)/EWT(1)/EEC-4/EEU(t)/EEC(b)-2/FCS(k) Fac-4/Pae-2/P1-4/
ACCESSION NR: AP5005355 P1-4/P1-4 S/0109/65/010/002/0367/0370
JHB/MR

AUTHOR: Klement'yev, V. M.

TITLE: Directional radiation from a Fabry-Perot-type resonant system

SOURCE: Radiotekhnika i elektronika, v. 10, no. 2, 1965, 367-370

TOPIC TAGS: millimeter wave, submillimeter wave, directional antenna 25B

ABSTRACT: This experiment continues W. Culshaw's work on millimeter-wave radiation by Fabry-Perot-type gratings (IRE Trans., MTT-8, 1960, no. 2, 182). Two flat circular mirrors of radius a (2a = 93 mm) were located parallel to each other at distance L. One mirror was made from copper and had a feeder slit in its center. The second — radiating — mirror was represented by a semitransparent copper film, a copper-covered glass with a number of equidistant slits, a similar glass with equidistant circular 1-mm slits spaced at 5 mm, and a zone plate. At λ = 8 mm, directional patterns were measured

Card 1/2

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L 36992-65 ACCESSION NR: AP5005355

1

with TEM_{000} and TEM_{010} modes and various $P = a^2/L\lambda$. The sharpest patterns (about 1.20) were obtained with TEM_{000} mode; the antenna efficiency exceeded 50%. Orig. art. has: 4 figures and 3 formulas. [03]

ASSOCIATION: none

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NO REF SOV: 003

OTHER: 002

ATD PRESS: 3222

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"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723020001-6

AUTHOR: Klement'yev, V. M.; Kolconikov, Yu. D.

TITLE: Laser with cylindrical mirrors

SOURCE: Radiotekhnika i elektronika, v. 10, no. 5, 1965, 956-957

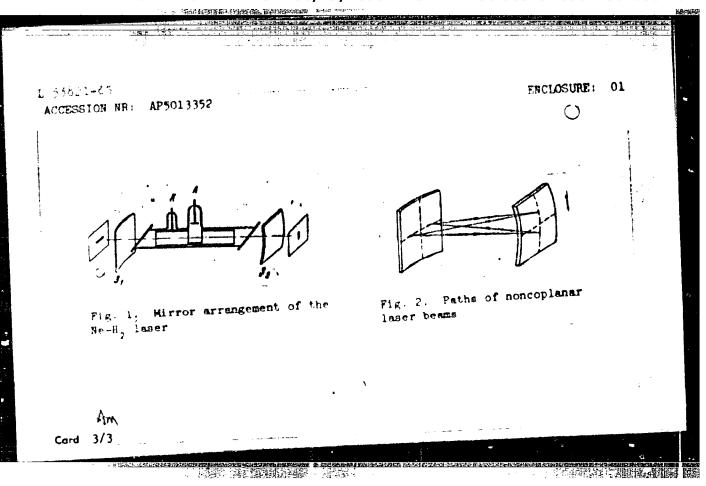
TOPIC TAGS: neon hydrogen laser, cylindrical mirror, hollew cathode discharge,

laser

ABSTRACT: A Ne-H₂ laser with hollow-enthode discharge and a resonator formed by cylindrical mirrors is described (see Fig. 1 of the Enclosure). The system of mirrors possesses properties similar to those of spherical mirrors. Noncritical tuning properties are preserved when one of the mirrors is turned 45—50° about the axis of the tube. Emission is also possible when the mirror generatrices are parallel, although this requires precise tuning. The paths of the noncoplanar beams in the system are shown in Fig. 2. The radius of curvature of the 35 x 50-mm cylindrical mirrors is 35 cm. The hollow cathode consists of two joined stainless-steel tubes with an 11-mm inner diameter and a total length of 150 mm. The total length of the discharge tube is 29 cm. The discharge is sustained in a pulsed mode in

Card 1/3

L 53821-65 ACCESSION NR: AP5013352 order to avoid overheating effects. The laser generates at 11143 Å and 11177 Å. Distinctive types of oscillation are produced by diaphragming. The simplest oscillation types are in the form of two crossed lines. When the mirrors are turned perpendicularly to each other, these lines are mutually perpendicular. More comtypes of oscillation have an additional series of lines parallel to the main kines. Orig. art. has: 3 figures. ASSOCIATION: none SUB CODE: EC ENCL: 01 SUBMITTED: 17Feb64 ATD PRESS: 4022 OTHER: 000 NO REF SOV: 001 Card 2/3



ACC NR. AP6003559	SOURCE CODE: UR/010	9/66/011/001/0139/£141
UTHOR: Klement'yev,	V. M.	
RG: none 21,44,4 ITLE: Reflection of ele asma layer	sctromagnetic waves by a metal n	nirror covered with a
	i elektronika, v. 11, no. 1, 1966	, 139-141
	agnetic wave, plasma physics	
a S. Taylor, Proc. IRE avelength of 8.1 mm in maiderably exceed the vering the end of the hoagnetic waves was study-factor of a Fabry-Percent of the process	of electromagnetic waves by a plant, 1961, 49, 12, 1831) is experiment a device having a hollow cathode wavelength. The effect of the non-pilow cathode upon the reflection side. The method of study was reconstored in the resonator, and the latter's	whose dimensions uniform plasma layer and absorption of electro- duced to determining the adjus was a >>> 1

L 1622-66 ACC NR AP6003559 Plots of relative Q-factor vs. discharge current for 0.5, 1, and 2-torr neon pressures are presented; within the current range of 0,5-1,5 amp, a considerable drop of Q-factor was observed. The study shows that, with a certain distribution of plasma parameters within the layer covering the flat mirror and for pressures within 0,5-3 torr, a considerable absorption of electromagnetic waves (1 8.1 mm) occurs. Orig. art. has: 2 figures and 3 formulas. SUB CODE: 20,09 / SUBM DATE: 08Mar65 / ORIG REF: 001 / OTH REF: 001. ATD PRESS: 4205

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723020001-6

ALC NR: AP6013137 SOURCE CODE: UR/0057/66/036/004/0746/0748

AUTHOR: Klement yay, V. H.

42 B

ORG: none

2/

TIBLE: Method for determining some plasma parameters in a Fabry-Perot type resonator

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 4, 1966, 746-748

TOPIC TAGS: plasma concentration, plasma decay, plasma oscillation

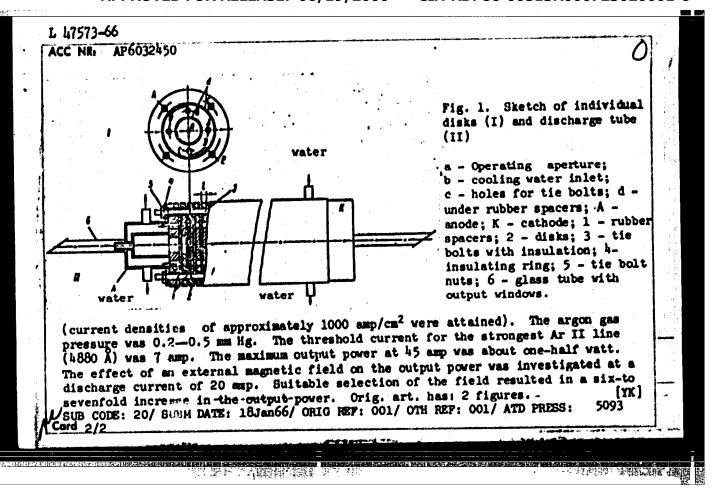
ABSTRACT: A method is presented for determining the electron concentration and rate of plasma formation in a Fabry-Perot type resonator by successive excitations of natural oscillations in the 8-mm range. The dimensions of the resonator are considerably larger than the wavelength and the resonator does not have side walls. These characteristics made it possible to place large plasma formations of arbitrary shape and arbitrary transverse dimensions between the resonator reflectors. Experimental determination of the electron concentration and the rate of formation can then be made by obtaining oscillograms representing a series of resonance peaks. The number of excited oscillations in a plasma layer is determined by the number of resonance peaks, and the average rate of plasma formation, by the distribution of these peaks. The method can be experimentally tested by the plasma formation in a hollow cathode. In the case of a pulsed regime, when both plasma formation and

Card 1/2

533.9.082

decay occur, it is essential that the voltage pulse duration be longer than the to of plasma formation. Either of the processes is then determined by oscillographis simultaneously the voltage pulse and signals from the resonator. Orig. art. has: 2 figures.														
SUB	CODE:	20/	SUBM	DATE:	010ct64/	ORIG	REY:	001/	OTH	REF:	002/	ATD	PRESS	10
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EEC(k)-2/EMP(k)/EMT(1)/EMT(n)/1/EMP(t)/ETIIJP(c) HO/JD L 47573-66 SOURCE CODE: UR/0368/66/005/003/0388/0390 ACC NRI AP6032450 AUTHOR: Donin, V. I.; Klement'yev, V. H.; Chebotavev, V. P. ORG: none TITIE: A high-current argon laser SOURCE: Zhurnal prikladnoy spektroskopii, v. 5, no. 3, 1966, 388-390 TOPIC TACS: gas laser, argon laser, high intensity laser, laser r and d ABSTRACT: A cw high-current argon laser which features a metallic discharge tube and cathode is described (see Fig. 1). The cathode was developed at the authors' Laboratory [probably at the Institute of Semiconductors, Hovosibirsk] in the course of work on arc discharges in the hollow metallic tube in low-pressure saturated metal vapor. The discharge tube consists of various oxidized Duralumin disks, which are insulated from each other by rubber spacers and slots (total thickness 1 mm) and are cooled with ordinary (non-distilled) water. The cathode and discharge tube are arranged axisymmetrically. The active length of discharge tube is 17.5 cm and its working diameter 2.5 mm. The tube is terminated with Brewster angle windows. The cavity consists of two spherical mirrors (R = 1.3 m) with multilayer dielectric coatings. The mirrors (92.4% and 99.1% reflective) are placed approximately 60 cm from each other. Laser action at discharge voltages of 125 v and currents of 45 amp was observed, although the cathode is capable of sustaining unlimited currents UDC: 621.375.9



ACC NR. APTOOLET SOURCE CODE: UR/0288/66/000/003/0151/0154 AUTHOR: Klement'yev, V. M. ORG: Institute of Semiconductor Physics, Siberian Branch, AN SSSR (Institut fiziki poluprovodnikov sibirskogo otdeleniya AN 888R) TITLE: Open resonator for millimeter waves SOURCE: AN SSSR. Sibirskoje otdeleniye. Isvestiya. Seriya tekhnicheskikh nauk, no. 3, 1966, 151-154 TOPIC TACS: resonator, millimeter wave An attempt is made to study the behavior of an open resonator with cylindrical mirrors (see Fig. 1) using the method of images when $L > \lambda_1$ and a >> \(\lambda\), and when losses in mirrors are greater than diffraction losses. Theoretical Fig. 1. Febry-Perot-type open resonator 621.372.413

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020001-6"

results are favorably compared to experimental values. Experimental results of fringe radiation are also given. The study is reduced to analysis of a beam of plane waves confined to a cone whose center is coincident with the z-axis and whose aperture angle is 0 < 0 0 2 1/2a). The beam analysis is based on the duality theorem. The reflecting mirror may be considered as an aperture of an absorbing screen and, multiple reflection as multiple passage of a beam through a series of apertures. Field distribution in the beam cross-section may be accounted for by assigning a specific type of amplitude characteristic function. Phase distribution is accounted for by the mirror reflection coefficient. Orig. art. has: 14 formulas, and 3 figures.

SUB CODE: 20/ SUBM DATE: 03Apr65/ OTH REF: 004/ SOV REF: 006/

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020001-6"

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Improving terminal switches for cranes. Besopetrula v

prom. 3 no.12:30 D '59. (MIRA 13:4)
(Oranes, derricks, etc.—Safety appliances)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020001-6"

8/020/60/133/04/10/031 8019/8060

246720

AUTHORS:

Berlovich, E. Ye., Klement'yev, V. M., Kraenov, L. Y.,

Nikitin, M. K., Yursik, I.

TITLE: New Isomeric States of Spherical Europium Nuclei With

Odd Mass Number

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 133, No. 4,

pp. 789-792

TEXT: By way of introduction the authors refer to the investigations carried out by B. S. Dshelepov and A. A. Bashilov (Ref. 1) into the level schemes of Eu¹⁴⁷-, Eu¹⁴⁹-, and Eu¹⁵¹ nuclei, that were determined by the spectra of internal conversion electrons and of photoelectrons. The principal part of these level schemes was studied by the authors with the coincidence method, and moreover, the lifetimes of the isomeric levels were found to be 624 kev (Eu¹⁴⁷), 496 kev (Eu¹⁴⁹), and 197 kev (Eu¹⁵¹). A short description is given of the experimental setup consisting in the main of two scintillation spectrometers. The results are shown in three diagrams (Figs. 1, 2, and 3) in the form of the decay curves of the above-mentioned Card 1/2

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New Isomeric States of Spherical Europium Nuclei With Odd Mass Number

B019/B060

three states as functions of the delay times, and the respective level schemes are explained. In the case of Eu¹⁴⁷, 7.8·10⁻⁷ sec were measured for the half-lives of the 396-kev transition (M2), and 7.8·10⁻⁶ sec for the 625-kev transition (E3). The corresponding values in Eu¹⁴⁹ for the 346-kev transition (M2) and the 497-kev transition (E3) were 2.62·10⁻⁶ sec and 5.24·10⁻⁵ sec, respectively. (5.8 + 0.3)·10⁻⁵ sec (175-kev transition, M2) are given for the half-life of the 197-kev state of the Eu¹⁵¹ nucleus, while a transition (E5) from 197-kev level to the ground state could not be established in this case. Table 1 gives the results of measurement found here for the three M2 transitions and the two E5 transitions. Details of these results are discussed and they are found to agree with the results given in a paper by V. S. Shpinel' on the variations in eigenstates. There are 3 figures, 1 table, and 8 references: 5 Soviet, 2 US, and 1 Danish.

ASSOCIATION: Fisiko-tekhnicheskiy institut Akademii nauk SSSR (Physico-

technical Institute of the Academy of Sciences, USSR)

PRESENTED:

March 10, 1960, by A. P. Ioffe, Academician

SUBMITTED:

March 7, 1960

Card 2/2

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8/048/61/025/002/003/016 B117/B212

AUTHORS:

Berlovich, E. Ye., Klement'yev, V. M., Krasnov, L. V.,

Nikitin, M. K.

TITLE:

Gamma radiation of Eu146

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, v. 25,

no. 2, 1961, 207-211

TEXT: The present paper was read at the 11th Annual Conference on Muclear Spectroscopy (Riga, January 25 to February 2, 1961). The authors have investigated gamma radiation caused by electron capture in Eu¹⁴⁶. The source was a gadolinium fraction that had been deposited chromatographically from a tantalum target. This target was bombarded with 660-Mev protons in a synchrocyclotron of the Olyal (Joint Institute of Muclear Research). The measurements have been made with a double coincidence scintillation spectrometer to one of whose branches a 100-channel pulse-height analyser of the type AN-100 (AI-100) had been connected. Photomultipliers of the type ϕ 3/-14 (FEU-14) with 30 by 40 mm large MaI crystals were used. A number of gamma transitions which are produced during decay of Eu¹⁴⁰ could be deter-Card 1/4

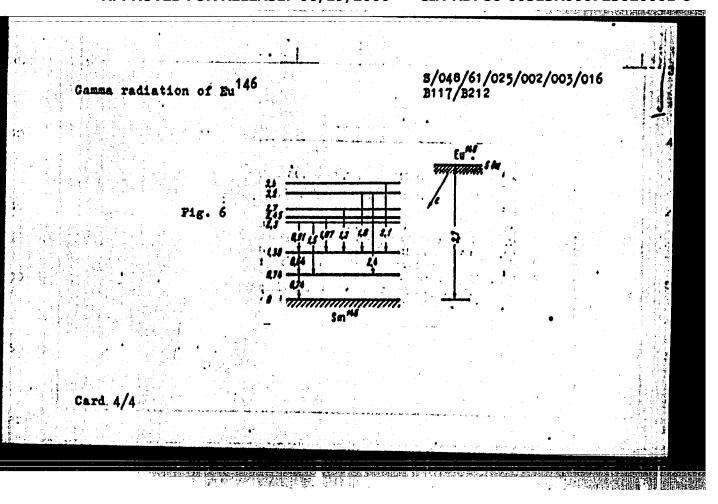
Gamma radiation of Eu146

8/048/61/025/002/003/016 B117/B212

mined by means of this spectrometer. Energies and relative intensities of these transitions are summarised in a table. The gamma-ray intensity was determined by splitting up the spectrum according to its standard lines. The intensity of the 0.64-Mev gamma-ray quanta is, according to an estimation, almost equal to that of 0.74-Mev gamma rays. The error of analysis is about 30%. In order to avoid the summation of specially intense and coinciding quanta of 0.64 and 0.74 Mev, lead filters, 6 to 28 g cm 2 thick, have been used to investigate the spectral region harder than 0.9 Mev. These tests confirmed a coincidence between quanta of 0.64 and 0.74 Mev (Ref. 1). Coincidences of 0.74-Mev quanta have been established with the following quanta: 0.64, 0.91, 1.07, 1.3, 1.5, 1.8, 2.1, and 2.4 Mev; also coincidences of 0.64-Nev quanta with those enumerated have been found, with the exception of 1.5 and 2.4 Mev. Besides, self-coincidences were observed which led to the assumption that a quantum with an energy of about 0.64 Mev is present. In addition, coincidences with various sections of the hardspectrum range were investigated: 2.4, 2.1, 1.8, 1.5, 1.3, 1.1, and 0.9 Mer (Fig. 5). Based on the results obtained, the authors suggest a modified decay scheme for Eu146 (Fig. 6). According to the formula of Kameron, the decay energy from Eu146 to Sm146 amounts to 3350 key while according to the

Card 2/4

8/048/61/025/002/003/016 B117/B212 Gamma radiation of Eu146 formula of Levi it is even 3700 kev (Ref. 4). Therefrom the conclusion may be drawn that newly introduced levels with energies of up to 3.5 Mey are present. Some of the transitions which occur in coincidences are probably individual components of the groups mentioned in the table (e.g., the 1.07-Nev line from the group with energies of 1.1 Mev). Gamma quanta with energies of 280 kev have been observed which coincide with 115+120-kev quanta. These gamma rays apparently originate from a Gd146 or Eu146 decay. G. K. Gorodinskiy is mentioned. There are 6 figures, 1 table, and 4 Sovietbloc references. ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. I. loffe Akademii nauk SSSR (Institute of Physics and Technology imeni A. I. loffe of the Academy of Sciences USSR) Z_T, MeV Fig. 5 1,00 0,10 0.91 1,1 (1,07+1,17) Card 3/4



8/048/61/025/002/004/016 B117/B212

AUTHORS:

Berlovich, Ye., Klement'yev, V. N., Krasnov, L. V.,

Nikitin, M. K.

TITLE:

Study of the nuclear levels of Eu147, Eu149, and Eu151

PERIODICAL:

Isvesiya Akademii nauk SSSR. Seriya fizicheskaya, v. 25,

no. 2, 1961, 212-217

TEXT: The present paper was read at the 11th Annual Conference on Muclear Spectroscopy (Riga, January 25 to February 2, 1961). The authors investigated level schemes of Eu¹⁴⁷, Eu¹⁴⁹, and Eu¹⁵¹ by using a double-coincidence scintillation spectrometer. Unit and method have been briefly described in Ref. 3. The radiation source was a gadolinium fraction that had been separated from a group of rare earths and had been formed in a tantalum target bombarded with 660-Mev protons in a synchrocyclotron of the OIYaI (Joint Institute of Nuclear Research). The following gamma quanta were determined for the gamma spectrum of Gd¹⁴⁷ by means of the scintillation spectrometer: 230, 380 (370;396), 500, 750, 900, 1100, 1300, 1550, and 1750 Mev. For 230-kev gamma quanta prompt coincidences were established with the following Card 1/4

Study of the nuclear ...

8/048/61/025/002/004/016 B117/B212

quanta: 400, 550, 620, 770, 900, 1100, 1300, and 1550 kev; 1750-kev quan did not coincide with those quanta enumerated. There are only X-rays in the coincidence spectrum with these gamma quanta. The delayed coincidences have also been investigated and coincidences of 370 and 930-kev quanta with 230, 400, and 625-kev quanta have been found. Coincidences of the same kind with gamma rays in an energy range of from 500-600 kev yielded the same quanta of 230, 400, and 625 kev. The coincidence spectrum with 930-kev quanta is brought as an example. The results obtained agree well with the decay scheme for Gd¹⁴⁷, as suggested in Ref. 1. Due to a complicated scheme and the presence of a large number of gamma transitions with energies close to each other, which could not be separated since the resolution of the spectrometer was not strong enough, it was not possible to verify the distribution of all gamma quanta as given in Ref. 1. The following gamma quanta have been established in the Gd149 spectrum: 150, 300, 350, 500, 790, and 940 kev. This is in agreement with data of Ref. 1. The 150-kev gamma quanta yielded prompt coincidences with 350, 520, and 790-kev quanta. In the delayed-coincidence spectrum for 150, 350, and 500-key gamma quanta, there are 300-key gamma quanta but no hard quanta with an intensity more than 15% above the 300-kev line intensity. The delayed spectrum for 300-Card 2/4

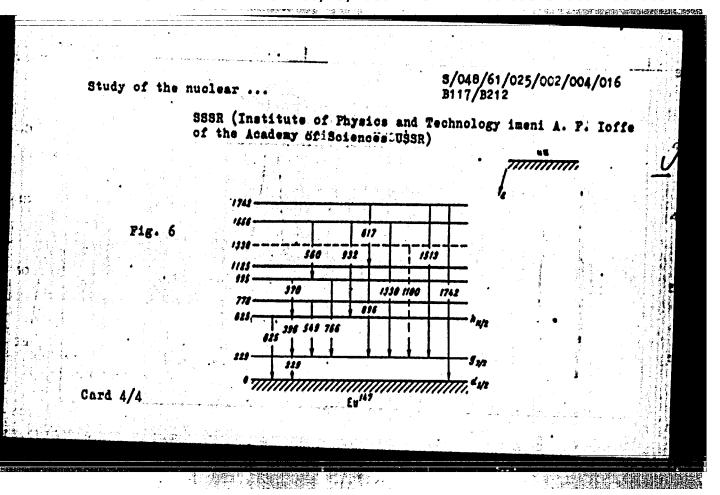
Study of the nuclear ..

5.

S/048/61/025/002/004/016 B117/B212

key gamma quanta shows that they coincide with 150, 350, and 500-key quanta-The above measurements proved the assumption that the 300-key transition occurs above the isomeric level. Refs. 2 and 3 showed the presence of an isomeric level above the 175-kev transition. By analysing the delayed-coincidence spectrum it was established that 175-kev quanta coincide with the 155-kev quanta. Delayed-coincidences have not been found with 243-kev quanta, neither at the delay of these quanta nor at the delay of the quanta of the above mentioned spectrum. All this indicates that this transition does not occur above the isomeric level. The 243-kev gamma transitions and the 175-kev transitions are not in a prompt cascade since no 243-kev quanta have been established during tests with delayed coincidences when the 155kev quanta had been delayed and the coincidences had been recorded by means of a total spectrum. The authors state that they have been successful in finding a 108-243-kev cascade which occurs between the known 352-kev level and the ground state of Eu 51. The 243-kev level is introduced therefore but it is mainly occupied by K-capture in Gd151. V. A. Sergiyenko is mentioned. There are 10 figures and 7 references: 5 Soviet-bloc.

ASSOCIATION: Pisiko-tekhnicheskiy institut im. A. P. Ioffe Akademii nauk



BERLOVICH, E.Ye.; KLEMENT'YEV, V.N.; KRASHOV, L.V.; MIKITIN, M.K.

Camma-transitions in the sm¹⁴⁶ nucleus. Zhur. eksp. i teor. fin. 40 no.1:375-377 Ja *61. (MIRA 18:6)

 Leningradskiy fiziko-tekhnicheskiy institut AN SSSR. (Gamma rays) (Samarium)

SOV/137-59-5-9863

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 5, p 57 (USSR)

AUTHORS:

Tarashchuk, N.T., Klement'yev, V.V., Danilin, V.I., Lapshova, M.P., Lisov, I.V.

TITLE:

Smelting Chrome-Nickel Steels in Open Hearth Furnaces With the Use of Clotted Nickel Monoxide

PERIODICAL:

Stalingr, prom-st' (Sovnarkhoz Stalingr, ekon, adm, r-na), 1958, Nr 2 - 3, pp 25 - 28

ABSTRACT:

Clotted Ni monoxide was used instead of granulated Ni in Cr-Ni steel smelting in 50-ton open-hearth furnaces of the "Krasnyy Oktyabr's plant. Clotted Ni monoxide was added to the charge or during the rafining stage in an amount of 1,000 to 1,800 kg per smelt. The smelting process was characterized by intensified boiling, particularly during the first 10 minutes after addition of Ni monoxide. Assimilation of Ni, already 5 minutes after its addition, was 98.5% on the average; the rate of burning-out of C was 0.38% per hour, If Ni monoxide was added to the refining pool, the smelting time was reduced by 33 minutes;

Card 1/2

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SOV/137-59-5-9863

Smelting Chrome-Nickel Steels in Open Hearth Furnaces With the Use of Clotted Nickel Monoxide

and the bubbling and final stage by 28 minutes. If the monoxide was added to the charge, the smelting time did not change. The addition of Ni monoxide instead of granulated Ni did not affect the mechanical properties, the degree of anisotropy, the macrostructure, the slatiness, and flake sensitivity of the steel. The prime cost of the steel was reduced.

3.I.

Card 2/2

KLEMENT'YEV, V.V.; ZAVODCHIKOV, A.H.; DUDIN, R.N.; MIKHAYLOV, V.I.; GANOVA, T.N.

LITT WINE THE HEALT.

Roasting of nickel matte in a fluidised bed furnace. TSvet. met. 36 no.6129-34 Je 163. (MIRA 1617)

(Hickel-Hetallurgy) (Fluidisation)

A TOTAL DANGER AND PRINCIPLE OF THE PRIN

21(3)

807/48-23-2-2/20 AUTHORS:

Grigor'yev, Ye. P., Zolotavin, A. V., Klement'yev, V. Ya. Siniteyn, R. V.

TITLE:

Determination of the Relative Intensities and Conversion Co-efficients of Transitions Produced During the Decay of Se 75 (Opredeleniye otnositel'nykh intensivnostey i koeffitgiventov konversii perekhodov, vosnikayushohikh pri raspade Se75)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol 23, Nr 2, pp 159-184 (USSR)

ABSTRACT:

At the beginning, the authors report on data obtained up to now on the Ge/2 -- As/5 -- Se/5 decay, and the spectrometers, sources and conditions of measurement of the investigations explained in this paper are described as follows: the magnetic spectrometer used for measurement had a double focusing, and the half width of electron lines in the spectrometer conditioned by the apparatus amounted to 0.4%. The conversion spectrum was measured in the presence of radiation sources of different thickness: 0.05, 0.25, 5 mg/cm2. For the purpose of determining the spectral lines of photoelectrons thin targets of silver, lead, bismuth and other elements were used. The determinations covered 1) the relative intensities Ly of the spectral lines

Card 1/5

Determination of the Relative Intensities and Conversion Coefficients of Transitions Produced During the Decay of Se⁷⁵

of photoelectrons of Se⁷⁵; the authors recorded the whole spectrum with Bi-target o = 0.1 mg/cm², the energy range up to ~ 100 kev with Ag-targets o = 0.25-0.03 mg/cm², the range up to 401 kev inclusive with As-target, o = 0.25 mg/cm², the line 572 kev with particularly thick Ta, Pb, and Bi-targets up to o = 80 mg/cm² (Pigs 2-6). The energies obtained and the corresponding I_Y are listed in table 1. The intensity of the transition hy = 265 kev was assumed as a reference quantity equal to 100. For comparison, tables 1 and 2 contain also data obtained by other authors. For the purpose of checking the spectral sensitivity of the apparatus the relative intensities of \gamma-lines of Sb¹²⁴ were compared with the values mentioned in paper (Ref 47), in which investigations were carried out by means of the calibrated standard \gamma-spectrometer "Elotron" (Tables 4, 5 and table 6 give a comparison with Tb¹⁶⁰). A possible error in the determination of I_Y \(\frac{15\pi}{2} \) results from the comparisons. 2) The authors measured the electron spins of internal conversions of Se⁷⁵. They obtained 26 conversion lines produced by 12 transitions in As⁷⁵ (Figs 7-12),

Card 2/5

1.7%。在100%的全代法院思维组织和**建设的建筑。**

Determination of the Relative Intensities and Conversion Coefficients of Transitions Produced During the Decay of Se¹

among which there are also the lines of Auger electrons K-LL, K-LK, K-MM. Their energies, intensities Iy and origin are listed in table 7. According to a comparison with data obtained by other authors the best accordance was found with Schardt and Welker (Ref 10). For the purpose of determining the conversion coefficients from I_{γ} and I_{K} two methods were applied: a) from a comparison of the experimental values I_{K}/I_{γ} with the conversion coefficients of transitions 265, 280, 305, 401 kev according to Bashilov and Il'in (Ref 45) (Table 8); the mean value $\alpha_{K}/(I_{K}/I_{\gamma})$ was used for determining the conversion coefficients of the other transitions; b) from the El transition of the transitions 121, 235, 401 kev the conversion coefficients of the other transitions were determined in the above-mentioned way. The values obtained in both ways agree well with one another. On the basis of a comparison between the theoretical and experimental values α_{K}^{-} the authors determined the multipole order of all transitions obtained (Table 9). According to the analysis of the scheme of As75 decay by means of Coulomb excitation and inelastic neutron

Card 3/5

Determination of the Relative Intensities and Conversion Coefficients of Transitions Produced During the Decay of Se⁷

scattering the authors determined the existence of the excitation states ~ 200, 281, 574, 780, 814, 1020, 1250, 1635 kev. The spectrum of Ge⁷⁵ was studied by the method of β-y-' coincidence and the levels 199, 265, 477, 628 kev were obtained (Table 10). The γ-spectrum and γ-γ-coincidence from papers (Refs 10 and 25) are given in table 11. Furthermore, the quantum characteristics of the ground state As⁷⁵, Se⁷⁵, Ge⁷⁵ were determined to be 3/2, 5/2, 1/2. The quantum characteristics of the levels 265, 280 and 401 kev were determined as well. The intensity equilibrium in the Se⁷⁵ decay is mentioned in tables 13, 14. The quantities lg πf are in accordance with selection rules. According to these results the scheme of the G⁷⁵ → As⁷⁵ decay is established (Pig 13). Similarities of parity with neighboring nuclei are contained in table 15. On the basis of the one-particle model the authors give two possible explanations of the ground state of the nuclei 34 and 33 As ⁷⁵/₄ as well as of the levels of As⁷⁵ at 199, 256, 280, 305 and 401 kev in table 17. There are 13 figures, 17 tables, and 55 references, 19 of which are Soviet.

Card 4/5

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Determination of the Relative Intensities and Conversion Coefficients of Transitions Produced During the Decay of Se 7

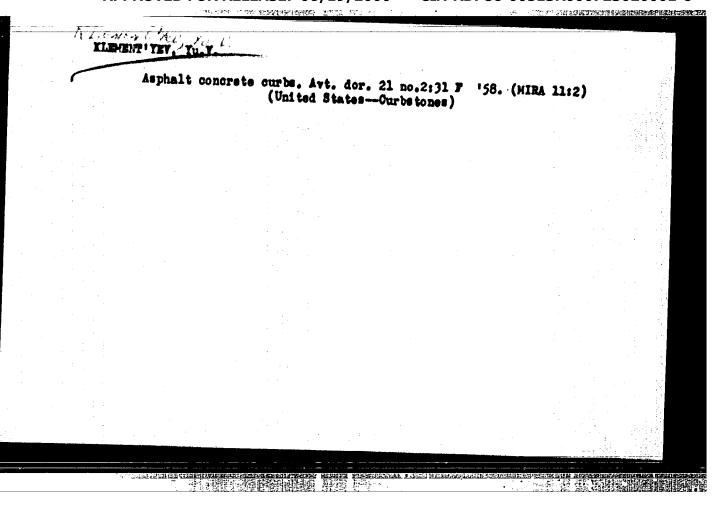
ASSOCIATION; Nauchno-issledovatel'skiy fizicheskiy institut Leningradskogo gos. universiteta im. A. A. Zhdanova (Scientific Research Institute of Physics of Leningrad State University imeni A. A. Zhdanov)

Card 5/5

VORONKOV, A., insh.; KLEMENT'IRV, Yu., insh.

Under the banner of our country. IUn.tekh. 6 no.12:14-16 D '61.
(MIRA 14:12)

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KLEGET YEV, Yu. Y., imb.

Using calculating machines in road costruction. Avt. dor. 21 no. 7:30 J1 '58. (MIRA 11:8)

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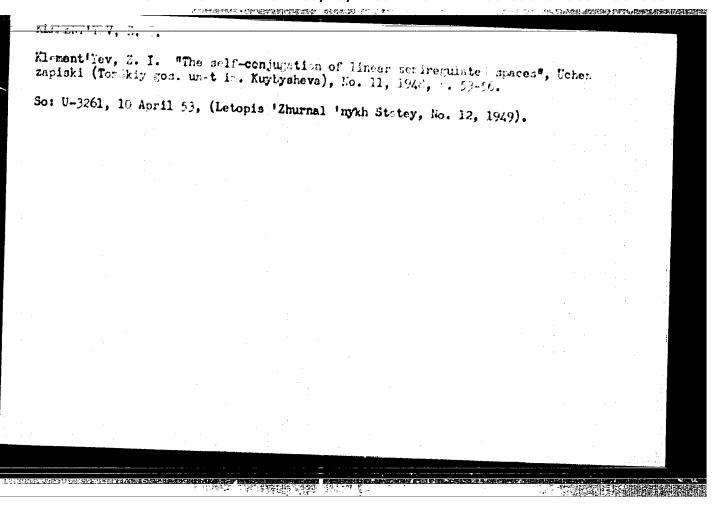
BULUSHEY, Yu.A.; GEDKHOY, B.I.; KLEGGET'TEY, Yu.V.; MAKEYEY, A.A.; SHAKHOVSKOY, Ye.P.; KEYLIN, A.U., Yed.; KOLESHIK, D.H., red.; YAROVA, L.V., red.isd-va; TIKROMOVA, Ye.A., tekhn.red.

[Collection of international conventions, treaties, agreements and regulations concerning problems in commercial navigation]
Sbornik meshdunarodnykh konventsii, dogovorov, soglashenii i pravil po voprosam torgovogo moreplavaniia. Moskva, Isd-vo
"Morskoi transport," 1959. 474 p. (MIRA 12:5)

1. Russia (1923- U.S.S.R.) Ministerstvo morskogo flota. (Maritime lav)

Klarent'yev, J. I. "On linear functions in ser regulate space", Toker. Sapiski (Tomokiy gos. un-t in. Kuybysheva), No. 11, 1948, p. 46-52, (Continued fro No. 5, 1947).

So: U-3261, 10 April 53, (Letonis 'Zhurnal 'nykh Statey, No. 12, 1949).



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KLEMENT YEV, Z. I.

Translation from: Referativnyy Zhrunel, Matematika, 1957, Er 1, p. 39 (URSR)

AUTHOR:

Klement'yev, Z. I.

TITLE:

On the Compactness of a Family of Completely Additive Functions (O kompaktnosti semeystva vpolne additivnych funktaly)

PERIODICAL: Uch. sap. Tomskogo un-ta, 1955, Er 25, pp. 9-12.

ABSTRACT:

Let R be an abstract set, $S = \{\ell\}$ a countable system of subsets R, whereupon R&S, and if e&S, then also R - e&S. Let T be the least Borelian field containing all sets of system S. The family Por completely additive functions f(e), which are defined on T, is called uniformly additive if $f(e_n + e_{n+1} + \cdots) \rightarrow Q$ is uniform with regard to $f \in \mathbb{Z}$ at $n \rightarrow \infty$ for all sums $e_1 + e_2 + \cdots$ of nonintersecting sets from T. The following theorem is proved: For compactness of the family £ (in the sense of convergency for any e (T) it is necessary and sufficient that it be uniformly bounded and uniformly additive. This theorem was proved by the reviewer under less general assumptions with regard to T (Mateu. 8b., 1957, 20 (62), Mr 2, pp. 317-329).

Card 1/1

V. M. Dubrovskiy

44-1-291

Referativnyy zhurnal, Matematika, 1957, Nr 1, p. 43 (USSR) TRANSLATION FROM:

AUTHOR:

Klement'yev, Z.I.

TITLE:

On One Condition for the Compactness of a Family of Continuous Functions (Ob odnom uslovii kompaktnesti

semeystva nepreryvnykh funktsiy)

PERIODICAL:

Veh. zap. Tomskogo un-ta, 1955, Mr. 25, pp. 13-14

ABSTRACT:

The following theorem is proven: In order that the family of $\{x(t)\}$ continuous functions, set at [a,b] be compact, it is necessary and sufficient that each sequence $\{x_n(t)\}\subset\{x(t)\}$ of the function

> $X(t) = \sup \{x_n(t)\}$ Q(t)= [m xn (t);

 $X(t) = \inf\{x_n(t)\}, \psi(t) = \lim_{t \to \infty} x_n(t)$ be continuous.

V.M. Dubrovskiy

Card 1/1

Card 1/1

· "大松",是它的经验的自己的。

ELECENTITEY, Z.I.

Conditions of representability of a continuous function with values in abstract functional space in the form of the Fourier-Stieltjes integral. Trudy TGU 144:13-21 159.

(NIMA 13:6)

1. Kafedra matematicheskogo analisa Tomskogo gosudarstvennogo universiteta im. V.V. Knybysheva.

(Functional anyalysis)

22h22 8/044/61/000/001/012/013 0111/0222

16.4600

Klement'yev, Z.I.

AUTHOR:

On conditions under which a continuous function with values in an abstract functional space is representable by a Fourier-Stieltjes integral

PERIODICAL: Referativnyy shurmal, Matematika, no.1, 1961, 86, abstract 1B 413. ("Tr.Tomskogo un-ta", 1959, 144, 13-21)

TEXT: Let Y be a K*-space of countable type (L.V.Kantorovich, B.Z. Yulikh, A.G.Pinsker, Funktsional'nyy analis v poluuporysdochennykh prostranstvakh [Functional analysis in semiordered spaces] Moscov-Leningrad, 1950). It is shown that every function \(\chi(t)\) with values in the space Y which is continuous on [-T,T] is representable by the

Stieltjes integral $\lambda(t) = \int_{-\infty}^{\infty} e^{iut} d\omega(u)$ then and only then if for every n, every $t_k \in [-7,7]$ and every real number C_k the inequality

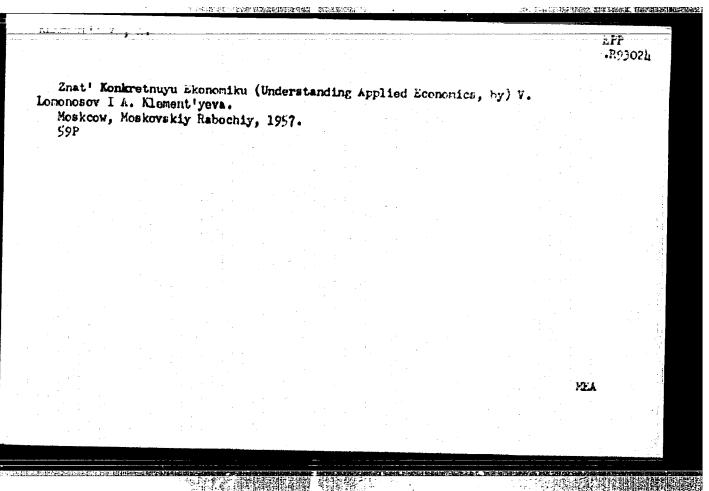
$$\left|\sum_{k=0}^{n-1} a_k \lambda(t_k)\right| \leq y_0 \sup_{-\infty < x < \infty} \left|\sum_{k=0}^{n-1} a_k a_k^{-1}\right|$$

Card 1/2

APPROVED FOR RELEASE: 06/19/2000

· 中国中国国际 (1984)

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BOODIAUSSKIY, M.; BORISOV, S.; GRIGOR'TEV, M.; GUSAROV, M.; GUSEV, L.;

ZHAROV, S.; ZHITVIM, M.; ZALOGIM, S.; ZOLOTOV, G.; INOZENTSEV, M.;

ELEMENHITHAL A.; KONAROV, A.; KOSHACHEV, V.; LAPTEV, V.; LONGSOSV, V.;

MIRHATLOV, A.; MOVIROV, I.; PERTENV, M.; PRODROVICH, P.; ECMAROV, I.;

RUMLINSKAIA, R.; SVIRIDOV, G.; SOTNIKOV, G.; SURROTIM, A.; TURTAROV, I.;

CHESNOROV, S.; CHICHKIM, K.; CHIKHANOV, I.

Grigorii Markelovich Il'in; an obituary. Metallurg 3 no.10:36 0 '58,

(II'in, Grigorii Markelovich, 1894-1958)

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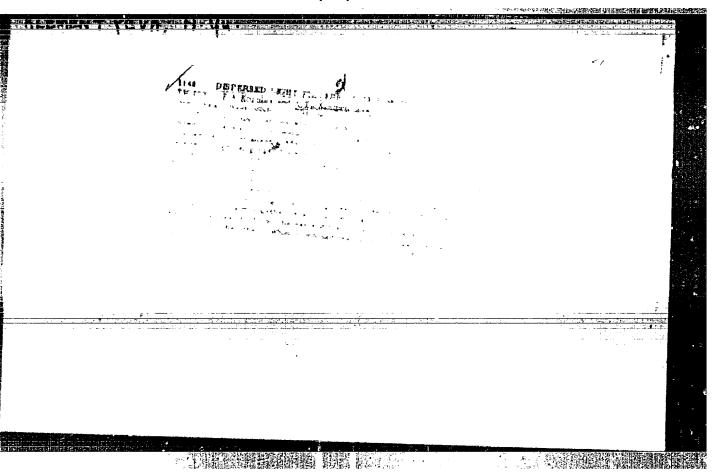
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BABUM, F.Ya.; BAYBARIM, P.P.; VAYNSHTEYN, TS.Z.; GUSEV, L.V.; ZHETYIN,
M.P.: KONTSEVAYA, Ye.M.; LEVINA, M.M.; HOVLYANSKAYA, K.A.; PODVOYSKIY, L.M.; THUNTSEV, D.S.; FLEROV, W.G.; CHIKHACHEV, I.A.; TUROV,
Yu.M.; GUIKOVA, N., red.; YEOOROVA, I., tekhn.red.

[Light over the gate] Svet nad sastavoi. Moskovskii rabochii.
1959. 422 p. (MIRA 12:4)

(Moscow--Metallurgical plants)

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KLEMENT	YEVA, A. Yu.	
USER/Physics	- Dielectric mirrors	
Oard 1/1	Pub. 22 - 15/54	
Anthora ,	Korolev, F. A. and Element leva, A. Tu.	
Tiele ,	Optical properties of 'dielectric mirrors' at an ac	ute spele of light
Periodical :	Dok. AN SESR 100/3, 459-460, Jan. 21, 1955	
Metrack (Experiments with the so-called "dielectric mirroys" experiments were intended to prove the fact that the successfully used for refraction and reflection of a falling light, but also for light falling at an acureferences: 3 USSR and 1 French (1946-1954). Graphs	ose mirrors can be
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KUROLEV, F.A.; KIEGERF'ENA, A.Tu.

Preparing dielectric mirrors and interference light filters and studying their epitical properties. Vest. Mosk., um. Ser. mt., uskh., astron., fis., khin. 12 no.3:65-73 '57. (MIRA 11:3)

1. Kafedra optiki Moskevskoge gosudarstvennege universiteta.

(Dielectrics) (Light filters)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020001-6"

83427

8/188/60/000/001/001/010 B019/B056

AUTHOR:

Klement'yeva, A. Yu.

TITLE:

An Interference Light Filter for the Ultraviolet Spectral

PERIODICAL:

Vestnik Moskovskogo universiteta. Seriya 3, fizika, astronomiya, 1960, No. 1, pp. 23-26

TEXT: The author describes a method she developed for producing dielectric light filters with a narrow transmission band of 25 A and a reproducibility of the position of 10 A within the range from 3000 to 4000 A. These light filters are obtained by evaporation at a pressure from 5.10-0 to 1.10-5 torr, heating being effected by a tungsten heater. During their production, some of the light filters are moved on a circle in a special device, each of them rotating simultaneously round its axis. In this way, light filters are obtained among which there is only very little difference. The optical thickness of the films is checked by observing the intensity changes of the light passing through, which are due to light interferences in the films. Pig. 1 shows a scheme of the device used for

Card 1/2

An Interference Light Filter for the Ultraviolet Spectral Range

83427 8/188/60/000/001/001/010 B019/B056

this purpose. An incandescent lamp is used as a light source for the spectral range from 4000 A to 3200 Å, and for the spectral range below 3200 Å, a hydrogen lamp is used. The author then names the following compounds together with their refractive indices as being substances suited for such light filters: PbCl₂, MgFe₂, Na₃AlF₆, and Sb₂O₃. By means of the above-described device the author produced light filters from PbCl₂, which were protected with an MgF₂ film. The light filters consisted of two eight-layer mirrors provided alternatingly with $\lambda/4$ lamellas made from PbCl₂-MgF₂ and intermediate layers of MgF₂ with a thickness of λ m/2. As shown by Fig. 2, such a dielectric light filter has a very narrow transmission band in the ultraviolet region with a width of $\Delta\lambda_{1/2} = 25$ Å at transmissions of a maximum of 60%. In the visible region, such light filters have somewhat broader transmission bands. There are 2 figures and 3 non-Soviet references.

ASSOCIATION: Kafedra optiki (Chair of Optics)

SUBMITTED: April 29, 1959

Card 2/2

69967

24,3200

\$/170/60/003/01/09/023 B022/B007

AUTHORS:

Korolev, F. A., Klement'yeva, A. Yu., Meshcheryakova, T. F.

TITLE:

Dielectric Multilayered Interference Light Filters for the Visual and Near Infrared Region of the Spectrum

PERIODICAL:

Inshenerno-fisicheekiy shurnal, 71960, Vol. 3, No. 1, pp. 55 - 61

TEXT: In the present paper the method of producing dielectric interference light filters having a position of the maximum of the light transmissivity band λ_m of the light filter given with an accuracy of \pm 10 A and a sample surface uniformity of the order of 5 - 10 A, as well as the apparatus used, is described. The depre-vacuum pump RVM-20; the high-vacuum unit vA-05-01; and the diffusion pump of the type VM-5? The vacuum is measured by means of manometer tubes of the motor of the type UMT-20 is used. Control of the multilayer light filter with respect to transmissivity is carried out by means of the device schematically scale, having a sensitivity of 10 a/mm; is used. For the determination of the Card 1/2

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Dielectric Multilayered Interference Light Filters for the Visual and Mear Infrared Region of the Spectrum

8/170/60/003/01/09/023 B022/B007

ratio between the coating thickness and arbitrary point P and the thickness of the coating in the center, relation (3) is given. The dependence of coating thickness on the distance from the center a of the rotating sample is graphically represented (Fig. 2). The authors further found that when vaporising on the metal coatings for light filters the main factors are the temperature of the vaporiser and the height of the vacuum, however, the influences exerted by these factors are independent of the nature of the material vaporised on. Pig. 3 gives the light transmittance bands of the dielectric light filters of I, II, and III order, which consist of EnS and cryolite-layers. The characteristics of the light filters were measured in the spectrophotometer of the type SF-2M in the visible region of the spectrum, and in the devices of the types IES-112 and SF-4 in the near infrared of the spectrum. Also after having been used for two years, the accuracy of the light transmittance bands of the said light filters amounted to several ingetroess. There are 3 figures and

ASSOCIATION: Gosudarstvennyy universitet im. M. V. Lomonosova, g. Moskva (State University imeni M. Y. Lomonosov, City of Moscow)

Card 2/2

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8/051/60/009/005/011/019 **8/**051/8191

AUTHORS:

Korolev. F.A., Klements yeva. A.Yu., and

Meshcheryakov, T.F.
TITLE: Interference Light

Interference Light Filters with a Transmission Band of 1.5 1 Width

PERIODICALS Optika i spektroskopiya, 1960, Vol.9, No.5, pp 648-652
TEXT: Interference filters with a narrow transmission band
(20-30 Å) were reported in earlier papers (Refs 1, 2). Later the
transmission band was narrowed down to 8-10 Å in the middle of the
visible region. In some applications an even narrower transmission band is required. The present paper gives a theoretical
design calculation for interference filters with very narrow
(1-3 Å) transmission bands. This theory was employed to produce
multilayer dielectric light filters with transmission bands from
13 Å (55% transmission) to 1.5 Å wide (15% transmission). The
transmission maxima occurred in the region 5600-5900 Å. These
filters were made by alternate evaporation of Zn8 and cryolite
in vacuum. Their structure is given in column 2 of Tables 1 and
2, where H denotes a N4 layer with a high refractive index
Card 1/2

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ELEMENT THYA. A. Yu.

Interference light filters for the ultraviolet region of the spectrum. Vest. Nosk um. Ser. 3: Fis., astron 15 no.1:23-26 '60. (NIRA 13:10)

1. Kafedra optiki Moskovskogo universiteta.
(Light filters) (Ultraviolet rays)

TO THE WATER TO THE TRANSPORT OF THE PARTY O KLEMENT YEVA COUNTRY : USAR CATEGORY General Biology. Individual Development. Habryonal Development: RZhBiol., No. 5,1959, No. 19096 ABS. JOUR. AUTHOR Ryshikh, G. N.; Klement'yeva, L. B. Cask State Pedagogical Institute. INST. TITLE 1 The Effect of Periodic Chilling on the Embryonal Development of Chicks. ORIG. PUB. 1 Veh. sap. Cmakogo gos. ped. in-ta, 1957, vyp. 6. 97-103 **ABSTRACT** The effect of periodic chilling upon the growth and development of chicken embryos was investigated. Eggs of various incubation stages were placed for 45 min. daily into a refrigerator (at 2-300). It was found that periodic chilling from the 2nd until the 8th day of incubation increases the percentage of hatched chicks, and has a positive influence on the formation of blood cells (erythrocyte size and percentage of granular leukocytes increase). The chicks developed normally during their first months of Card: 1/2

GLUZBARG, B.Ye.; KLEMENT'YEVA, L.S.

Calcification of pulmonary sequestra. Sov. med. 27 no.1: 135-137 Ja '64. (MIRA 17:12)

1. Leningradskaya basseynovaya klinicheskaya bol'nitsa imeni Chudnovskogo (glavnyy vrach A.L. Matusov).

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KARHENT YEVA, L.S.

Limitations and possibilities of large-frame fluorography in the diagnosis of pulmenary and cardiovascular diseases.

Trudy LSCMI 53:24-52 59. (MIRA 13:10)

1. Kafedra rentgenologii s meditsinskoy radiologiyey Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (sav. kafedroy - prof. B.M. Shtern). (LUNGS--DISEASES) (CARDIOVASCULAR SYSTEM--DISEASES) (DIAGNOSIS, FLUOROSCOPIC)

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KLEMENT'YEVA, L.S.

Possibilities of large-frame fluorography in the diagnosis of silicosis. Trudy ISCHI 53:103-110 159. (MIRA 13:10)

1. Kafedra rentgenologii s meditsinskoy radiologiyey Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (sav. kafedroy - prof. B.M. Shtern). (LUNGS-DUST DISEASES) (DIAGNOSIS, FLUOROSCOPIC)

KLEMENT 'YEVA, II.

CZ Cassiopeiae. Per.svezdy 14 no.1:64-65 'a '62. (MIRA 17:3)

1. Otdel peremennykh zvezd Moskogskogo otdeleniya Vsesoyuznogo astronomo-geodezicheskogo obahchestva.

IN'IOVA, N.M.; KLEMENT'IEVA, N.F.

Separate determination of calcium and magnesium in line carbonate.
Khim.i tekh.topl.i masel 6 no.8:64-65 Ag '61. (MIRA 14:8)

1. Orenburgskiy Neftenslozavod.
(Calcium—Analysis)
(Calcium—Analysis)
(Calcium carbonate)

MAKAROV, P.T.; IN'KOVA, N.M.; KLEMENT'YEVA, N.P.

Determination of phosphorus in heavy petroleum products and additives by means of the volumetric method during ashing. Khim. i tekh. topl. i masel 8 no.5165-66 hy '63, (MIRA 1618)

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AUTHORS:

In'kova, N.M., Makarov, P.T., and Klement'yeva, N.F.

TITLE:

Determination of sulphur in heavy petroleum products

and additives by the iodometric method

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.10, 1962,

60-62

TEXT: Deficiencies in the determination of S in heavy petroleum products by reacting barium chromate with sulphate ions were overcome by using BaCl₂ and potassium chromate solutions instead of solid barium chromate, which is not soluble in water. This modification reduced the time of S determination by a factor of 5 to 6 compared with a standard gravimetric barium sulphate method FOCT 1431-49 (GOST 1431-49). In the modified method an oil sample is ashed which converts any Ba present into BaCO3 and sulphur into Na₂SO₄. The latter is extracted with hot water and the extract made up to 100 ml. A part of the solution is treated with a standard BaCl₂ solution and the excess barium treated with an excess of standard potassium chromate solution in weakly

Card 1/2

IN'KOVA, N.M.; MAKAROV, P.T.; KLEMENT'IKVA, N.F.

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Determining the sulfur in heavy petroleum products and additives by the iodometric method. Khim. i tekh. topl. i masel 7 no.10: 60-62 0'62 (MIRA 17:7)

1. Orenburgskiy neftemaslosavod.

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IL'IMA, N.V.; ELEMENT'YEVA, O.I.

Phase composition of heatproof magnesite-chromite refractories after their service in a cement kiln. Trudy Giprotessent (NIRA 13112)

(Refractory materials)

Hommade radiometer. IUn.tekh.no.1:64-66 B '56. (MEA 10:3)
(Radiometer)

and the control of the second section of the control of the contro

ROPHAN, Sh.; KLMCKUT'INVA, T.

New equipment has been installed. Mias.ind.SSSR 30 no.1:28
'59.

1. Vitebskiy myasokombinat.

(Vitebsk.—Meat industry.—Nquipment and supplies)

ESTRIN, M.I., kand, tekhn, nauk; KLEMENT YEVA, Yade, insh.

Operations of some foreign rotary and milling snow plows. Stroi. i dor. machinestr. 3 no.9:33-36 S 158. (MIRA 11:10) (Snow plows)

上工工行動組織之"特別學的完成,學學的數學的 多人有物理的 第二十

SPEKHOVA, S.M., insh.; KLEDENT'YEVA, V.S., insh. The problem of rapid determination of the slag content in slag portland cement by the ammonium solubility method. (MIRA 15:7) Nauch, soob, MIITSementa no.12:40-42 '61.

(Slag cement) (Ammonium chloride)

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LOPATHIKOVA, L. Ya., kand. tekhn. nauk; GRIKEVICH, L.N., insh.; KLEMENT'YEVA, V.S., insh.

Petrographic studies of synthetic barium-manganese slag. Trudy NIITSement no.19:98-106 '63. (MIRA 17:11)

KLEMENT YEVA, YE.K.

USSR/Chemical Technology. Chemical Products and Their Application -- Food industry,

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6739

Author: Klement'yeva, Ye. K.

Institution: None

Title: Experimental Freezing of Hot-Smoked Fish

Original

Publication: Ryb. kh-vo, 1956, No 6, 26-28

Abstract: The Kerch fish combine has conducted, in 1954 and 1955, experiment work on freezing and cold storage of hot-smoked herring and horse mackerel. The fish was packed in No 1 boxes and stacked in a room maintained at -17 to -180, where it was kept for 10 days and longer. After 2 days the fish reached a temperature of -60, which decreased gradually thereafter to -70 and -80. On the 10th day the quality of herring had not deteriorated, and on the 37th faint indication of oxidation of the fat under the skin became apparent. Mackerel retained its

quality for one month. The experiments were repeated at Don-Kuban'

Card 1/2

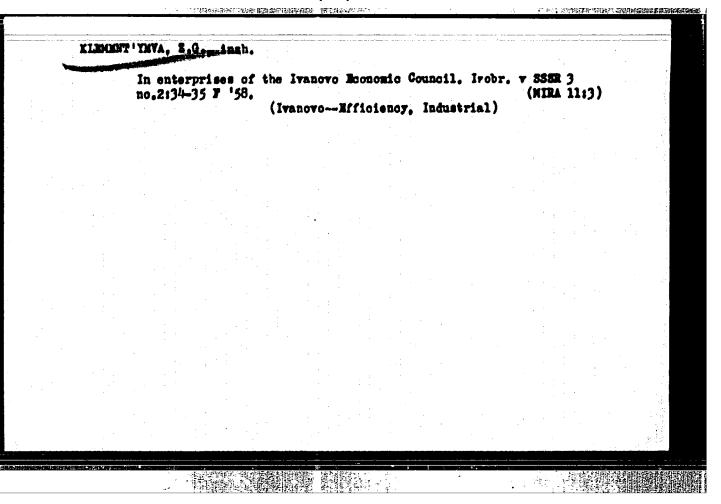
USSR/Chemical Technology. Chemical Products and Their Application -- Food industry, I-28

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6739

Abstract: experiment station at Azcherniro, with hot-smoked anchovies packed in cardboard boxes of 350 g capacity, stacked in crates. The anchovies were frozen and kept at -12°. After two months of storage appearance and taste of the anchovies had undergone no change.

Card 2/2

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ILLINICZ, Jersy; KIEMENTYS, Harian

Purification of phenol sewage. Problemy proj hut massyn 12 no.10:304-310 0 164.

1. Biprohut, Warsaw Branch.

[11] 18 小线线线的电影 医神经结肠切断的 医神经原理 [1

KLEMENTES, Mieszyslaw, Mgr. inz. (Bytom, oland): K. NSZCZYNSKI, Alexander, Mgr.inz. (Bytom, Foland); BROL, Gerard, inc. (Bytom, toland).

Technological development and its effect on labor productivity in copper mining in Poland. Budy 12 no.7/8:242-245 J1-Ag*64 (H:RA 17:3)